1. Response to Rejection of Independent Claim 1

Applicants' claim 1 is directed to a "multi-function hub for use in an assist system." As

claimed, the multi-function hub includes "an input/output ("I/O") interface for communication to

a plurality of computational nodes." The hub and computational nodes may be used, for

example, to interconnect a variety of different modules in an assist system.

Referring to Applicant's specification, in one exemplary embodiment Applicants

describe that the computational nodes may communicate with various different modules, such as

trolleys, lifts, sensors, hubs, intent sensors and user toolings. (pg. 15). The computational nodes

can be used to control each module and permit communication between modules. (pg. 17)

Further, the computational nodes may communicate with a plant information network and a

computer for setup and configuration. (pg. 17). As claimed, the Applicants' multi-function hub

includes an I/O interface for communication to a plurality of computational nodes.

In contrast, Kazerooni generally describes an end-effector 222 connected to a controller

221 via a signal cable 223. The controller can receive signals from the end-effector. In response

to the signals, the controller can cause a corresponding movement in the actuator to move a load.

While Kazerooni describes that the "controller 221 can be an analog circuit, a digital circuit, or

a computer with electronic input/output capability," the controller only serves as an interface

between the end-effector and the actuator. The controller does not communicate with other

components. Thus, Kazerooni does not disclose a hub, let alone one that includes an I/O for

communication to a plurality of different computational nodes.

As claim 1 contains a limitation neither taught nor suggested by Kazerooni, claim 1 is

therefore allowable. Claims 2-31, which depend from claim 1, are therefore also allowable.

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2. Response to Rejection of Dependent Claims 11-13

For the reasons previously described, Kazerooni does not disclose the multi-function hub

as claimed in Applicants' independent claim 1. Yuan also fails to describe Applicants' multi-

function hub. Since both Kazerooni and Yuan fail to disclose Applicants' multi-function hub,

the Examiner's proposed combination of Kazerooni and Yuan does not render obvious

dependent claims 11-13. Therefore, claims 11-13 are allowable.

3. Conclusion

Applicant respectfully submits that all pending claims 1-31 are allowable. Independent

claim 1 is allowable for the reasons previously explained. Therefore, dependent claims 2-31 are

also allowable. Applicant submits that the application is in condition for allowance and

respectfully requests early notice to this effect.

If any questions or issues remain, the Examiner is invited to immediately contact the

undersigned attorney, Brian Harris, at his direct dial number (312) 913-3303.

Respectfully submitted,

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Reg. No. 45,900

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